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Abstract

An arrangement to receive and accommodate the power and control electronics of an electric motor comprises a first circuit board mounted with control electronic components, a second circuit board mounted with power electronic components which has a substrate that not only has electrically insulating properties but also good thermal conductivity, a cooling element in thermally conductive contact with the substrate of the second circuit board and a motor housing connected to the cooling element.

Since the first circuit board can be constructed in a conventional manner and satisfactory cooling of the power electronic components arranged on the second circuit board has been provided for by the provision of the second circuit board that conducts heat to the cooling element, a compact, cost-saving overall design and construction has been achieved which is reliable when the electric motor is in operation.